

Fig. 1. Rats reared for 3 months in restricted conditions require more time than rats reared in enriched conditions to locate the hidden platform in this hippocampal-dependent memory task. A diet supplemented with CDP-choline improves this memory deficit in restricted rats.

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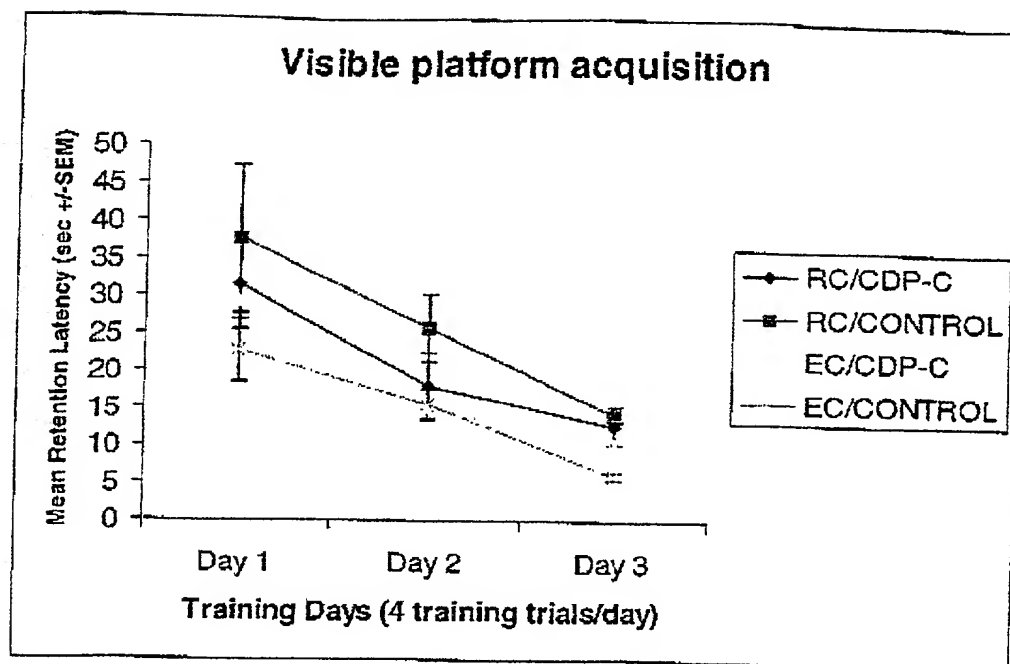


Fig. 2. Rats reared in restricted conditions do not require significantly longer retention times to locate the visible platform in this striatum-dependent memory task.

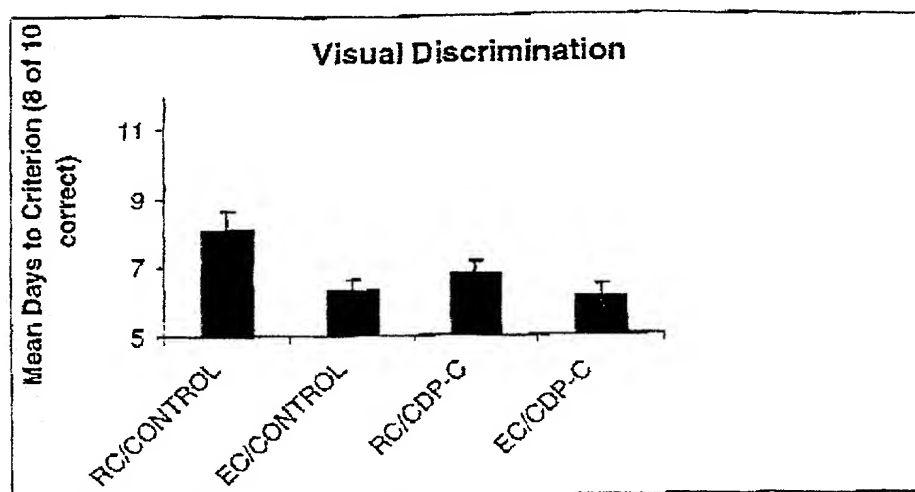


Fig. 3. Rats reared in restricted conditions acquire the simple visual discrimination task at a slower rate than do rats raised in enriched conditions. A diet high in CDP-choline alleviates some of this deficit.

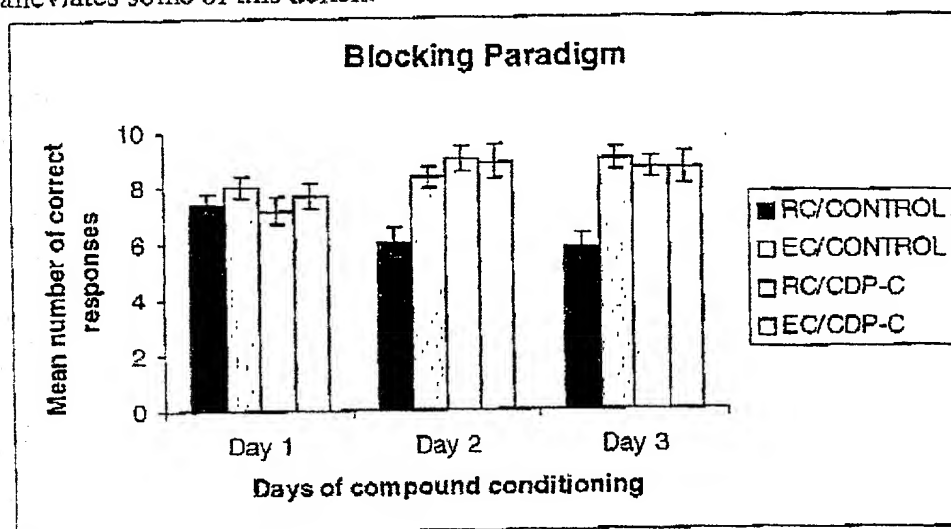


Fig. 4. Rats reared in restricted conditions are distracted by the addition of irrelevant cues to an already well-learned visual discrimination stimulus-response task. Enriched rats are not distracted by this irrelevant information attesting to their superior selective attention skills. CDP-choline alleviates this deficit in selective attention in restricted rats.

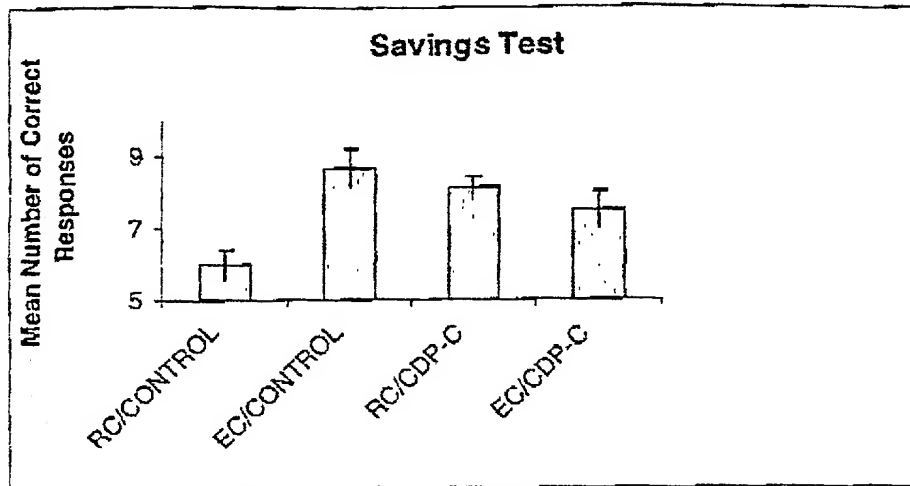


Fig. 5. A test for original savings of relevant information adds further evidence that original learning of the relevant information was impaired in restricted rats due to the addition of irrelevant information. A diet high in CDP-choline improves the ability of restricted rats to focus attention on the relevant information.

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Phosphatidyl choline synthesis in CHP134 cells

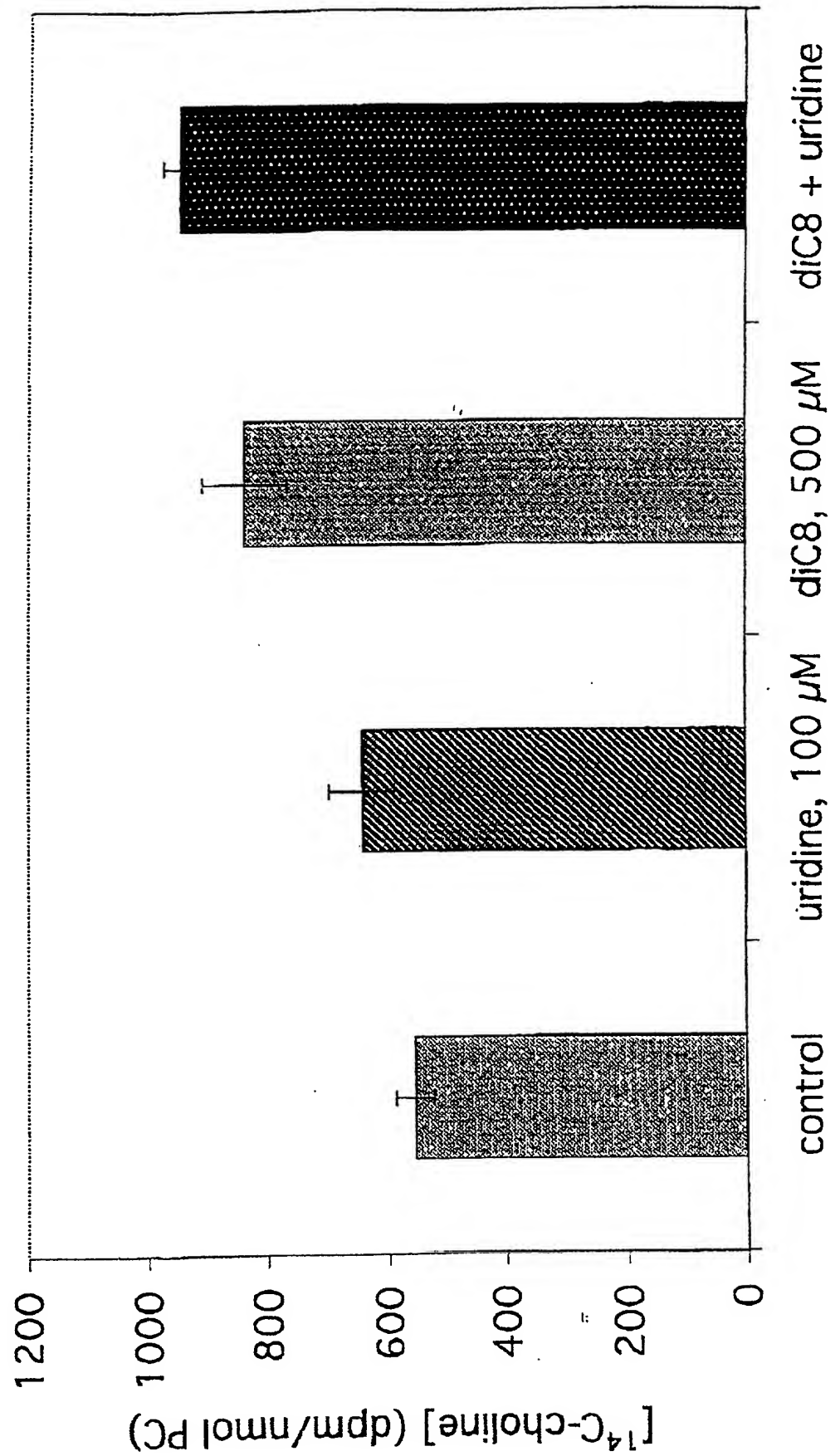


FIGURE 6

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CDP-choline in CHP134 cells

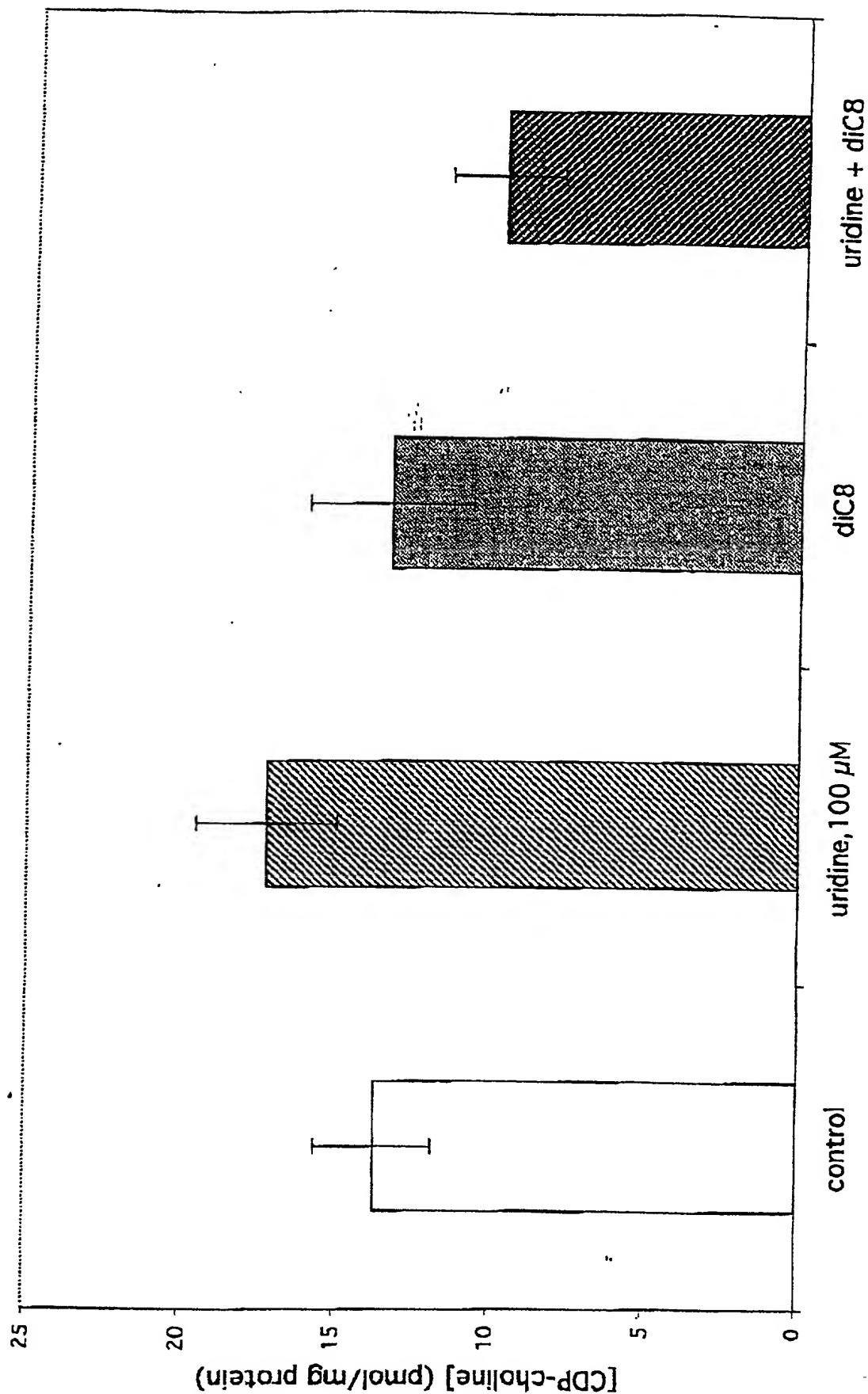


FIGURE 7